

# HIGH FREQUENCY COMPOSITE COMPONENT AND RADIO COMMUNICATION UNIT USING THE SAME

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- European:

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## Abstract of JP2000278168

**PROBLEM TO BE SOLVED:** To attain miniaturization and light weight for a high frequency composite component. **SOLUTION:** This composite component 10 is used for a personal digital cellular PDC system mobile phone and consists of a GaAs switch SW 1, low pass filters LPF1, LPF2 being high frequency filters and a directional coupler COU, and 1st-6th ports P11-P16. The GaAs switch SW1 is provided with 6 terminals S11-S16, the low pass filter LPF1 is connected to the terminal S14 and the low pass filter LPF2 is connected to the terminal S16 respectively. Furthermore, the terminals S11-S13, S15 are used for 1st-3rd and 5th ports P11-P13, P15 of the high frequency composite component 10. The directional coupler COU consists of a main line SL1 and a sub line SL2, and the low pass filter LPF1 consists of the main line SL1 of the directional coupler COU and a capacitor C1 connected in parallel with the main line SL1. Moreover, the low pass filter LPF2 consists of an inductor L and a capacitor C2 connected in parallel with the inductor L.

